

Hybrid membrane including a polymer separation layer and a ceramic support material useful nanofiltration, reverse osmosis, ultrafiltration, and microfiltration and in pressure membrane processes

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Abstract of DE10139559

It has been found that a hybrid membrane with a polymer separation layer and a ceramic support material combines the separation properties of polymer membranes and largely the chemical and pressure resistance of a ceramic membrane, and that, the polymer membranes are easily prepared from flexible inorganic chemically resistant and pressure resistant support materials. Hybrid membranes with a selective separation layer, in which the support material is permeable to inorganic material, and the selective separation layer is based on a polymer. An Independent claim is also included for preparation of the hybrid membrane as indicated above involving application of a solution of an organic polymer to the inorganic support material with formation of a polymer layer on the support material.

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